



**PATIENT PRESENTING CLINICAL SIGNS**

Jake Kubla Has been trembling, circling, restless. Suspect cognitive function, arthritis, periodontal disease. Lost 1 lb in past 4 months. BW run prior to start carprofen and BUN found to be markedly elevated.

**SPECIES**

Canine

Abnormal PE/Chem/CBC/UA Results: ALP 192, BUN 110, Cre 1.3, SDMA 13.1, BU<sub>n</sub>.Cre ratio 85, Amy 1193, PSL 247, PLT 631 w/ increased estimate, USG 1.034 with quiet sediment.

**BREED**

Cocker Spaniel

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

**SEX**

Neutered Male

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The ureters were not visible which is normal. No uroliths or sediment were visualized and anechoic urine was present. No evidence of inflammatory or neoplastic changes were noted. Ureteral papillae were normal. The pelvic urethra was imaged 1.0 cm beyond the cystourethral junction.

**AGE**

16 Years

The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some age-related loss of curvilinear patterns regarding the capsule and C/M junction. The cortices presented largely uniform texture with some increased echogenicity expected for his age patient. Medullary structure differed distinctly from that of the cortex and no evidence of pelvic dilation was present. The right kidney measured 4.64 cm. The left kidney measured 4.35 cm.

**WEIGHT**

20 Pounds

**INTERPRETED BY**

Eric Lindquist, DMV

**Adrenal Glands**

The **adrenal glands** were not visualized.

DABVP, Cert. IVUSS

**Spleen**

The **spleen** presented a smooth homogeneous parenchyma hyperechoic to liver and renal cortical parenchyma. The capsule was smooth without noticeable expansion or deviation from within the spleen or adjacent pathology. The splenic vasculature demonstrated normal volume without signs of congestion or thrombosis. No sonographic evidence of acute or chronic inflammatory, neoplastic, or infarctual changes were noted.

**IMAGING PERFORMED BY**

Dr. Amanda Olsen

**HOSPITAL NAME**

Limestone Vet Hospital

**Liver**

The **liver** was uniformly swollen with minor, excessive gallbladder debris and over distension with dependent and suspended bile without evidence of overt mucocele formation. However, excessive sludge was present. The liver presented coarse architecture with mildly increased portal markings and subtle, mixed echogenic changes. This is consistent with vacuolar hepatopathy and some level of remodeling and history of inflammatory component. There was no overt suspicion of neoplasia.

**REFERRING VET**

Dr. Laurita Halbert

**INVOICE**

43830

**Gastrointestinal**

**DATE**

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Examination of the **gastrointestinal tract** revealed a stomach and intestine free of stasis, of normal wall thickness, acceptable curvilinear mural detail, and peristaltic activity. Minor excessive gastric gas noted. Small and large intestine demonstrated normal luminal chyme and stool consistency respectively. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted.



**PATIENT**

**Pancreas**

Jake Kubla

The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Pancreatic duct and capsular contour were acceptably normal and parenchyma respected normal curvilinear patterns. No overt evidence of active inflammatory or neoplastic disease was noted.

**SPECIES**

Canine

**ULTRASONOGRAPHIC FINDINGS**

**BREED**

- Moderate degenerative renal changes, expected for this age patient
- Benign hepatopathy

Cocker Spaniel

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**SEX**

No evidence of pathology affecting the clinical status. If adrenal disease is suspected, sedation with further imaging of the adrenal is indicated, yet no global pathology in the regions of the adrenals. CT of the skull and cervical spine with contrast indicated.

Neutered Male

**AGE**

16 Years

**WEIGHT**

20 Pounds

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

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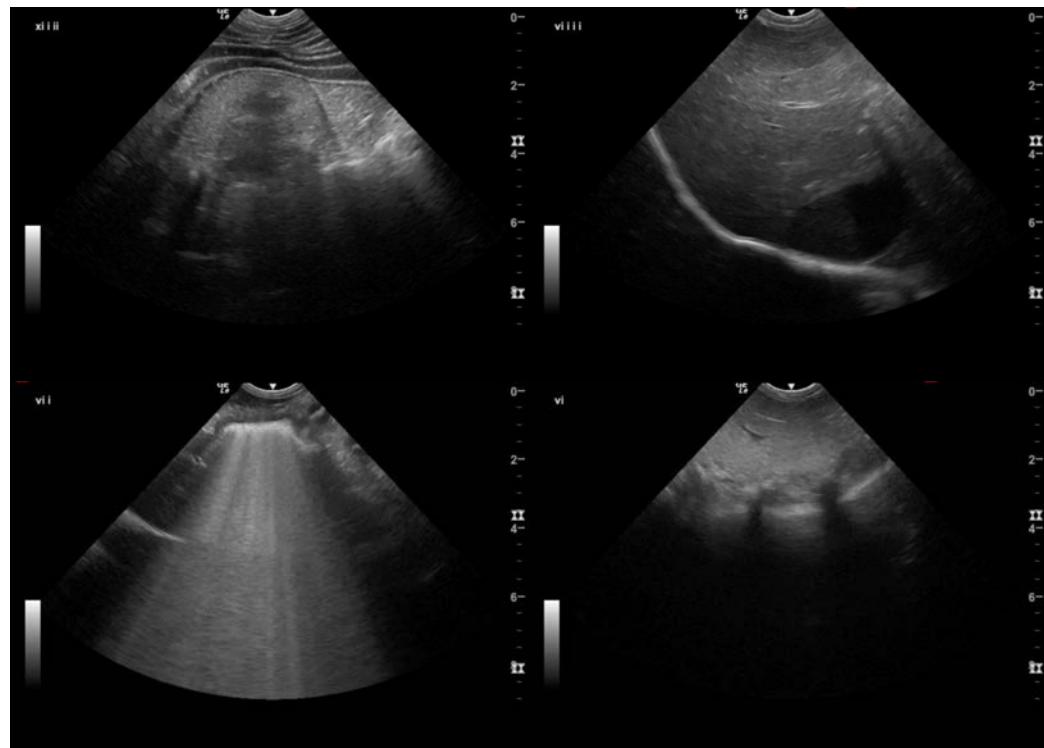
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**PATIENT**

Jake Kubla

**SPECIES**

Canine

**BREED**

Cocker Spaniel

**SEX**

Neutered Male

**AGE**

16 Years

**WEIGHT**

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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance please contact me.

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